## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

1. (Currently amended) An apparatus comprising:

a memory storage structure to hold a bundle of instructions;

a buffer, the buffer including an information field, the buffer further including a no-operation instruction (NOP) indicator field; and

folding logic <u>circuit</u> to place, responsive to a NOP in the bundle, a "present" value in the NOP indicator field.

2. (currently amended) The apparatus of claim 1, wherein:

the folding logic <u>circuit</u> is further to allocate the information field for a non-NOP instruction in the bundle.

3. (currently amended) The apparatus of claim 1, wherein: An apparatus comprising:

a memory storage structure to hold a bundle of instructions;

a buffer, the buffer including an information field, the buffer further including a no-operation instruction (NOP) indicator field; and

folding logic circuit to place, responsive to a NOP in the bundle, a "present" value in the NOP indicator field;

the folding logic is to place, responsive to a first NOP in the bundle, a "present" value in the NOP indicator field; and

the folding logic is further to allocate the information field for a second NOP instruction in the bundle, responsive to all instructions in the bundle being NOP instructions.

4. (original) The apparatus of claim 1, wherein:

the memory storage structure is a queue to hold a plurality of bundles.

- 5. (currently amended) The apparatus of claim 1, wherein: the buffer is to hold a plurality of entries.
- 6. (original) The apparatus of claim 1, wherein:

An apparatus comprising:

a memory storage structure to hold a bundle of instructions;

<u>a buffer, the buffer including an information field,</u> the buffer entry includes further including a plurality of NOP indicator fields, the number of NOP indicator fields being n-1, where n is the number of instructions in the bundle; <u>and</u>

folding logic to place, responsive to a NOP in the bundle, a "present" value in the NOP indicator field.

7. (original) The apparatus of claim 6, wherein:

each of the plurality of NOP indicator fields corresponds to an instruction in the bundle; and

the folding logic is to place, responsive to each of a plurality of NOP instructions in the bundle, a "present" value in the NOP indicator field corresponding to the respective NOP instruction.

8. (Currently amended) The An apparatus comprising of claim 5, wherein:

a memory storage structure to hold a bundle of instructions;

a buffer, the buffer including an information field, the buffer further including a no-operation instruction (NOP) indicator field; and

folding logic to place, responsive to a NOP in the bundle, a "present" value in the NOP indicator field;

wherein the buffer is to hold a plurality of entries; and

the information field of each buffer entry is <del>capable of holding</del> to hold a result of an instruction in the bundle.

9. (Currently amended) The An apparatus comprising of claim 5, wherein:

a memory storage structure to hold a bundle of instructions;

a buffer, the buffer including an information field, the buffer further including a no-operation instruction (NOP) indicator field; and

folding logic to place, responsive to a NOP in the bundle, a "present" value in the NOP indicator field;

wherein the buffer is to hold a plurality of entries; and

the information field of each buffer entry is <del>capable of holding</del> to hold a decoded instruction.

10. (Currently amended) The An apparatus comprising of claim 5, wherein:

a memory storage structure to hold a bundle of instructions;

a buffer, the buffer including an information field, the buffer further including a no-operation instruction (NOP) indicator field; and

folding logic to place, responsive to a NOP in the bundle, a "present" value in the NOP indicator field;

wherein the buffer is to hold a plurality of entries; and

the information field of each buffer entry is <del>capable of holding</del> to hold a decoded micro-operation.

11. (currently amended) A method comprising:

determining, <u>during execution of a bundle of instructions</u>, a number x of nooperation (NOP) instructions in [[a]] <u>the</u> bundle, the bundle having a plurality (n) of instructions, wherein  $0 \le x \le n$ ;

allocating an entry in a buffer; and

providing, if x>0, a "present" value in an indicator field of the entry to specify a NOP instruction in the bundle.

12. (original) The method of claim 11, wherein allocating further comprises:

if x = 0, allocating a corresponding entry in the buffer for each of the n instructions.

13. (currently amended) The A method comprising of claim 11, wherein providing further comprises:

determining a number x of no-operation (NOP) instructions in a bundle, the bundle having a plurality (n) of instructions, wherein 0 < x < n;

allocating an entry in a buffer;

providing, if x>0, a "present" value in an indicator field of the entry to specify a NOP instruction in the bundle; and

providing, if x = n, a "present" value in each of n-1 indicator fields of the entry to specify n-1 NOP instructions in the bundle.

14. (currently amended) The A method comprising of claim 11, wherein allocating further comprises:

determining a number x of no-operation (NOP) instructions in a bundle, the bundle having a plurality (n) of instructions, wherein 0 < x < n;

allocating an entry in a buffer; and

providing, if x>0, a "present" value in an indicator field of the entry to specify a NOP instruction in the bundle; and

if 0< x< n, allocating a corresponding entry in the buffer for each of the  $(\underline{n-x})$  non-NOP instructions in the bundle.

15. (currently amended) The method of claim 14, wherein providing further comprises:

providing, if 0<x<n, for each NOP instruction in the bundle a "present" value in a NOP indicator corresponding to the NOP instruction, the corresponding NOP indicator being included in one of the (n-x) allocated buffer entries.

16. (currently amended) A system, comprising:

a dynamic random access memory to store a bundle, the bundle including a plurality of instructions; and

folding logic <u>circuit</u> to allocate a buffer entry for one of the instructions, wherein the buffer entry includes a NOP indicator field;

the folding logic <u>circuit</u> to place a "present" value in the NOP indicator field responsive to the presence of a NOP instruction in the bundle.

- 17. (currently amended) The system of claim 16, wherein folding logic <u>circuit</u> is further to allocate a buffer entry for a non-NOP instruction of the bundle.
- 18. (currently amended) The system of claim 16, wherein folding logic <u>circuit</u> is further to allocate a buffer entry for a NOP instruction of the bundle.
- 19. (currently amended) The system of claim 17, wherein the folding logic <a href="mailto:circuit">circuit</a> is further to place a "present" value in the NOP indicator field responsive to the presence of a second NOP instruction in the bundle.

## 20. (currently amended) The system of claim 16, wherein:

the bundle includes n instructions;

the entry includes n-1 NOP indicator fields; and

folding logic <u>circuit</u> is further to indicate the presence of a plurality x of NOP instructions in the bundle, wherein  $2 \le x \le n-1$ , by placing a "present" value in each of x indicator fields .

## 21. (currently amended) The system of claim 20, wherein:

folding logic <u>circuit</u> is further to place the "present" value for a selected one of the x NOP instructions into a selected one of the x indicator fields such that the selected indicator field maps to the location of the selected NOP instruction within the bundle.